SmartCabinet

SmartCabinet Quick Installation Guide

EMERSON
Network Power

SmartCabinet Integrated Solution Quick Installation Guide

This document has been created as a Quick Installation Guide only and should be read in conjunction with the *SmartCabinet Integrated Solution User Manual*

1 Overview

The appearance and the components of the SmartCabinet are shown in Figure 1-1.

Figure 1-1 Appearance and components of the SmartCabinet

2 Quick Installation

After the product arrives, follow this quick installation guide for operation. If you want to know specific descriptions and detailed installation diagram, refer to *SmartCabinet Integrated Solution User Manual*.

2.1 Installing Cabinet Kit

1. Loosen the fixing nuts on the four feet bolts to raise the feet, and the four casters will bear the weight. Place a slope (user-provided) in front of the front or rear door, and connect it to the pallet. Push the cabinet slowly from the pallet down to the ground along the slope, as shown in Figure 2-1.

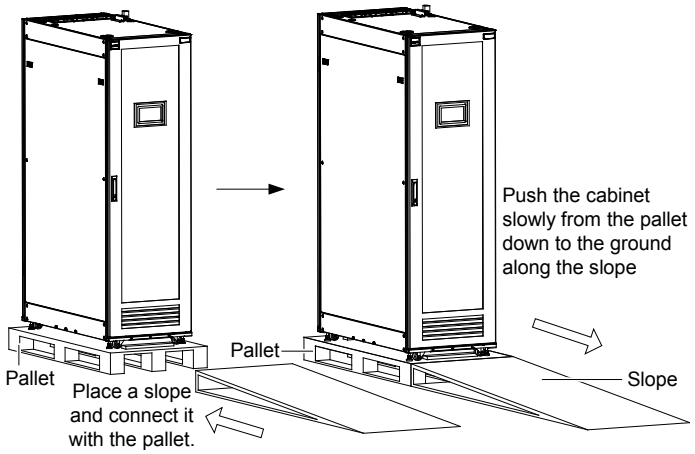

Push the cabinet slowly from the pallet down to the ground along the slope
Pallet
Pallet
Slope
Place a slope and connect it with the pallet.

Figure 2-1 Remove from the pallet

2. Place the cabinet in the desired position, and adjust the feet fixing nuts until the cabinet is level.

2.2 Air Conditioner Installation

Mechanical Installation will be required by your preferred Mechanical Contractor to install the outdoor Condensing Unit and pipework for the air conditioner. There are two installation types: For Cabinet-Top installation, specific descriptions and detailed installation diagrams, refer to *SmartCabinet Integrated Solution User Manual*.

For Remote mounting and connection of the Condensing Unit:

1. Confirm the installation position of the outdoor unit on site and place on cutomer supplied base or mounting brackets. Emerson recommends the use of rubber anti-vibration mounts or waffle pad (no supplied). See Figure 2-2 for the requirement on distance from the inlet and outlet side of the outdoor unit to the wall.

2. Use expansion bolts to fix the outdoor unit to the base.

3. Connect the copper pipes (included in the accessory box) to the Indoor and Outdoor components. Follow industry standards in selection and placement of pipe, system evacuation and if required, charge with additional refrigerant. This should only be required if the length of pipeworks exceeds the length of the supplied pipework.

Note: If Condensing Unit is positioned beside the Smart Cabinet, it may be easier to break the pipework through the side panels. Grommets and Vapour sealing will be required inb this instance but Warranty will not be voided.

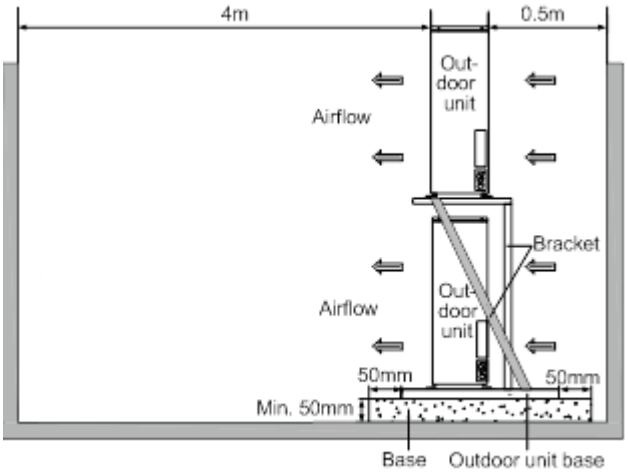
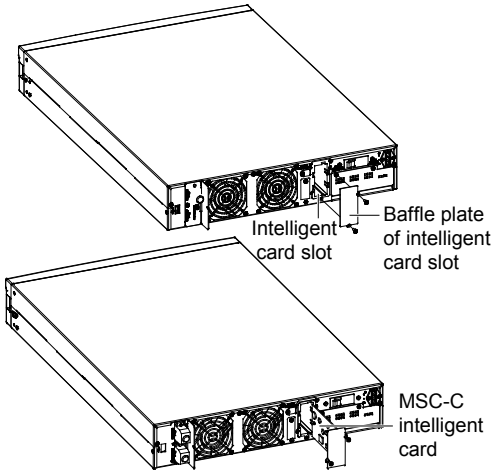


Figure 2-2 Normal installation of the outdoor unit

2.3 Installing MSC-C Card

Insert the MSC-C card into the intellislot intelligent card slot of the UPS, and use the provided screws to fix it in place, as shown in Figure 2-3.



Note: For Asia-Pacific version, the MSC-C intelligent card has already been installed before delivery.

Figure 2-3 Installing MSC-C card

2.4 Installing Wireless Modem (Optional)

1. Connect the wireless Modem to the USB port of the MSC-C card.

2. Position the wireless Modem aerial that contains magnet on the bottom plate in hot aisle, as shown in Figure 2-4.

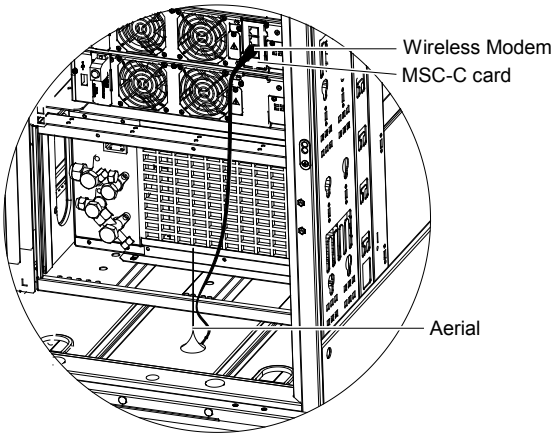


Figure 2-4 Installing wireless Modem

2.5 Adjusting Microswitch

Before shipping, the microswitch on the front & rear doors are retracted back into the cabinet and do not contact with the doors, therefore, you need to adjust the position of the microswitch before startup in field.

1. Loosen the two fixing screws on the microswitch metal kit.

2. Adjust the metal kit to the direction shown in Figure 2-5, ensure that opening and closing of the front & rear doors triggers action of the microswitch, as shown in Figure 2-5.

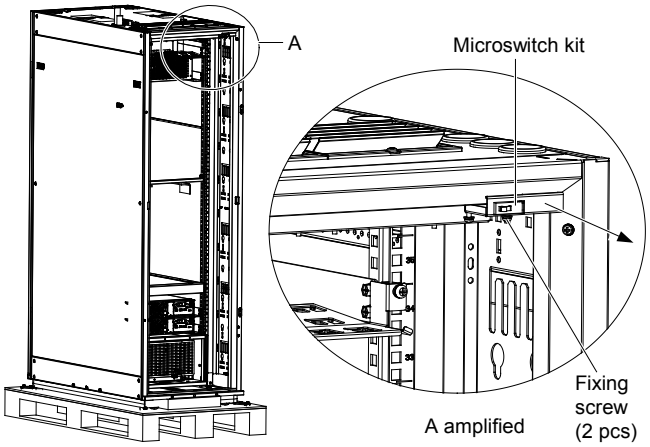


Figure 2-5 Adjusting microswitch

2.6 Connecting Cables

2.6.1 Connecting UPS Cables

Connect input and output cables of the UPS, as shown in Figure 2-6.

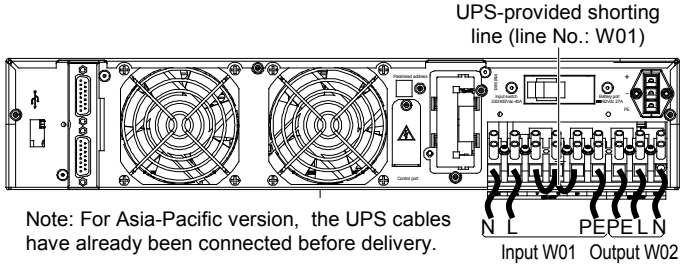

UPS-provided shorting line (line No.: W01)
Note: For Asia-Pacific version, the UPS cables have already been connected before delivery.
N L PE PE L N
Input W01 Output W02

Figure 2-6 Cable connection for single-in and single-out

2.6.2 Connecting battery cable

Take out battery cable A from the UPS accessory kit, connect the red, black and yellow terminals on the end of battery cable A with the corresponding terminals of the battery port on the rear panel of the UPS, and connect the other end with any battery port on the battery module, as shown in Figure 2-7.

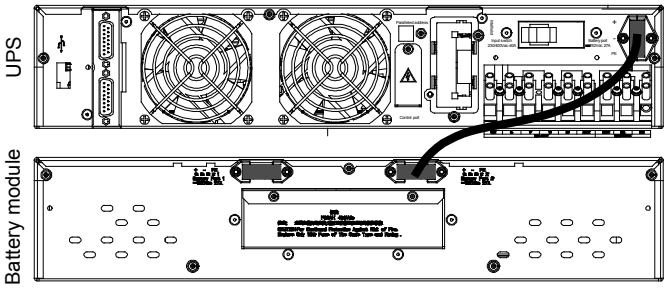


Figure 2-7 Connecting battery cable

2.6.3 Connecting MSC-C Cable

1. Connect the cable W08B to the COM1 port of MSC-C card, and connect the cable W12 (COM2) to the COM2 port of MSC-C card.

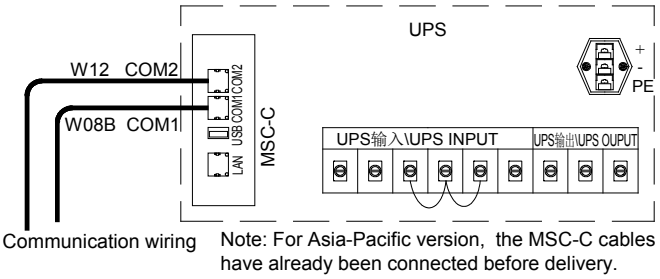


Figure 2-8 Cable connection of COM port of MAC-C card

2. Use a straight network cable to connect the LAN port of MSC-C card to the user local network, and you can monitor the SmartCabinet system through the Wed page.

2.6.4 Connecting Mains Input Cable System

1. Press and connect OT terminal (accessory) on the cable end.

2. Open the cover plate on the back of the PMU, connect the supplied cable to the total input position on the PMU connecting terminal block, as shown in Figure 2-9.

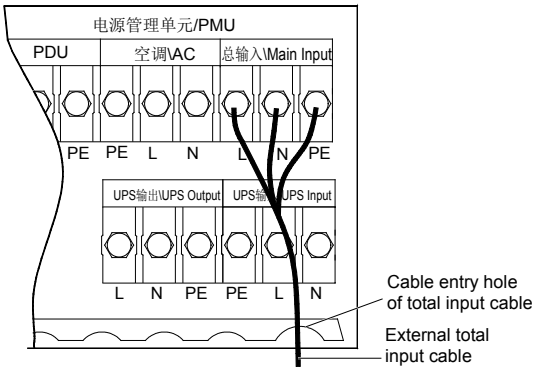


Figure 2-9 Connecting total input cable

3. Place the cable into the cable entry hole of mains input cable, and restore the cover plate.

2.6.5 Connecting Cables of A/C Indoor & Outdoor Units

Install the provided Signal and Power cables (shown in Fig 2.10 but provided as 2 separate cables) between the indoor and outdoor units via the cable entry hole on the cover plate. Power Cables will need to be installed by a licenced Electrician. Connect to the corresponding terminal studs on the indoor and outdoor units according to the labels, as shown in Figure 2-10.

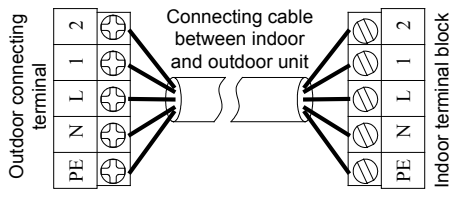


Figure 2-10 Connecting power cable to outdoor unit

2.6.6 Connecting Earth Cable

Your SmartCabinet is earthed via the Electrical Input cable installed by your licenced electrical contractor. There is no need for a separate earth input but if the installation requires one, there is a separate earth connection point, complete witrh penetration and grommet at the bottom of the enclosure. When earthing seperatley, use a M6 screw to fix one end of the earth cable

via the earth hole, and lead the other end through the rubber grommet on the bottom plate to the earth copper bar, as shown in Figure 2-11.

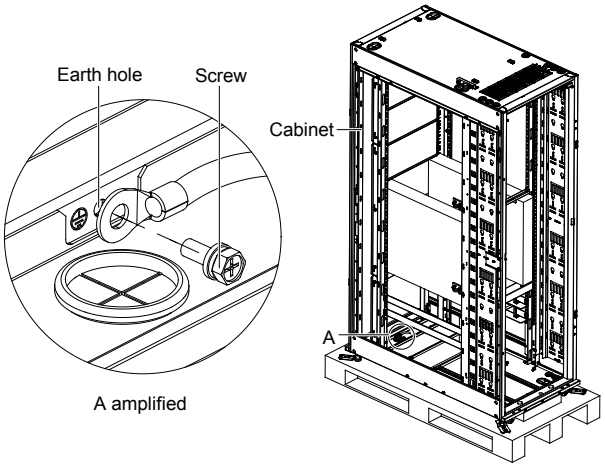


Figure 2-11 Connecting earth cable

3 Startup Operation

Once the Electrical and Mechanical Installation of your SmartCabinet has been completed, contact your local Emerson Authorised Service Provider (ASP) to arrange Commissioning and Start-up prior to switching on your system. Faiulure to have the system checked by Emerson or our ASP's could render the manufacturer's warranty void

Emerson or our ASP's will also be respoinsible for any ongoing recommended Maintenance Regime's to ensure the optimum performance and prolonged oiperation of your SmartCabinet.

Emerson Network Power Australia
Suite A, Level 6, 15 Talavera Road
Macquarie Park NSW 2113
www.emersonnetworkpower.com
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Version V1.1A Revision date June 19th, 2015

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Emerson Network Power Asia Pacific HQ
29/F Orient Square Bldg
F. Ortigas Jr. Road
Pasig City 1600, Philippines
Tel. No.: +63 2 620 3600

Australia
Head Office
Level 6, 15 Talavera Rd, Macquarie Park
NSW 2113, Australia
Tel No.: +61 2 9914 2900

Queensland
Unit 3, 50 Borthwick Ave, Murarrie, QLD 4172
Australian Capital Territory
Unit 5, 164 Gladstone St, Fyshwick, ACT 2609
Victoria
Unit 11, 350 Bridge St, Port Melbourne, VIC 3207
Western Australia
Unit 3, 10 Main Street, Osborne Park, WA 6017

Toll-Free No.: 1800 005 161

New Zealand
Auckland
2/14 Burleigh St, Grafton, Auckland 1023
Tel. No.: +64 9 443 5495

Christchurch
Unit 10/9 Print Place, Middleton,
Christchurch 8024
Tel. No.: +64 3 339 2060

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